

AuroraGuard™ ENV00-19433

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV00-19433 is a Natural, Acrylonitrile Butadiene Styrene (ABS) Injection Molding Grade. It was Designed for Electroplating and Painted Parts and Provides Excellent Adhesion and Processability.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Features	• Good Adhesion	• High Flow	• Platable
Uses	• General Purpose		
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6000	psi	ASTM D638
Flexural Modulus	363000	psi	ASTM D790
Flexural Strength	10300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	6.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	182	°F	ASTM D648
Vicat Softening Temperature	214	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	450 to 480	°F
Middle Temperature	450 to 480	°F
Front Temperature	450 to 480	°F
Nozzle Temperature	450 to 480	°F
Mold Temperature	110 to 170	°F
Injection Rate	Fast	
Back Pressure	50.0 to 200	psi
Screw Speed	Moderate	

